



electro-harmonix



MASTER Controls overall volume output of pedal. Can compensate for loss of volume, or too much volume due to other pedal adjustments.

GAIN Controls amount of distortion generated by circuit and tubes. Turning knob to the left reduces or turns off distortion, turning knob to right increases distortion.

DRIVE Controls compression applied by tubes. Directly impacts **MASTER** and **GAIN** controls. Turning knob to the left reduces or turns off compression, turning knob to the right increases compression.

BASS Controls bass output. Turning knob to left reduces bass, turning knob to the right will increase bass. Range approx. 150 Hz to 1.5 KHz.

TREBLE Controls treble output. 5 KHz, max. Turning knob to the left will reduce treble, turning knob to the right will increase treble.

OEM TUBES
OPT. TUBES

EHX 12AX7WB
EHX 12AX7

(2 required)
(2 required, these offer more gain)



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RECOMMENDED TUBE ALTERNATIVES FOR HOT TUBES REAL TUBE OVERDRIVE PEDAL

This pedal is rare, and it is sometimes difficult to find the OEM and optional tubes offered by Electro-Harmonix (they have been outsourced to Tung-Sol and Sovtek). So, here are some suggested tube sets that can replace the original or optional EHX tubes, or improve the overall sound and performance of the pedal - sometimes drastically. All of these tubes can be ordered directly from TubeDepot.com

Sovtek 12AX7WB - It would appear that this is the only OEM-type tube that is available for this pedal. Its a moderate to poor performer across the board (midway between warm and bright tonality, strong signal gain, narrow headroom, low sensitivity, and moderate noise). Although they are cheap (priced per tube), either of the other tubes that are listed below would be a better investment with respect to both money, and pedal usability and output quality.

Electro-Harmonix 12AX7 - This tube is Russian made, and it is the optional replacement tube for this pedal. Sold separately, two are required. Cheap, they can do the job quite well and excel in one area: its quiet. There is also a gold pin version for a little bit more, but there is no gain in performance (the tubes are equal across the board).

Genalex - Gold Lion B759/ECC83/12AX7 - This tube will show a moderate increase in all areas of performance (headroom, signal gain, sensitivity). But, its a little warmer than the above EHX 12AX7, and it is only a hint more noisy. Cost is a little over twice as much as the EHX 12AX7 per tube.

The Gold Lion is probably the best investment you could make for the Hot Tubes pedal.